

## **REMARKS**

In the Official Action mailed on **September 23, 2004** the claims were subject to a restriction requirement. The Examiner reviewed Claims 1-21. Claims 1-21 were rejected under 35 U.S.C. §102(b) as being anticipated by Santhanam (USPN 5,704,053, hereinafter "Santhanam").

### **Restriction requirement**

The claims were subject to restriction to one of:

Species I. claims 1-21, and

Species II claims 22-45.

Applicant affirms election without traverse of Species I made by A. Richard Park on September 15, 2004. Claims 1-21 read on Species I. Claims 22-45 have been canceled without prejudice.

### **Rejections under 35 U.S.C. §102(b)**

Independent claims 1, 8, and 15 were rejected as being anticipated by Santhanam. Applicant respectfully points out that Santhanam teaches **not inserting redundant prefetch instructions** for a given data reference (see Santhanam, col. 7, lines 1-8).

In contrast, the present invention **inserts multiple redundant prefetch instructions** for a given data reference (see page 16, lines 5-14 of the instant application). Inserting multiple redundant prefetch instructions is beneficial because it ensures that prefetch operations take place even if some of the issued prefetch instructions are dropped by the underlying hardware. There is nothing within Santhanam, either explicit or implicit, which suggests inserting multiple redundant prefetch instructions for a given data reference. In fact, Santhanam teaches away from inserting multiple redundant prefetch instructions (see page 16, lines 5-14 of the instant application).

Accordingly, Applicant has amended independent claims 1, 8, and 15 to clarify that the present invention inserts multiple redundant prefetch instructions for a reference. These amendments find support on page 16, lines 5-14 of the instant application.

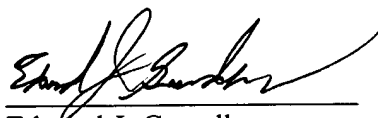
Hence, Applicant respectfully submits that independent claims 1, 8, and 15 as presently amended are in condition for allowance. Applicant also submits that claims 2-7, which depend upon claim 1, claims 9-14, which depend upon claim 8, and claims 16-21, which depend upon claim 15, are for the same reasons in condition for allowance and for reasons of the unique combinations recited in such claims.

**CONCLUSION**

It is submitted that the present application is presently in form for allowance. Such action is respectfully requested.

Respectfully submitted,

By



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